<u>Amendments to the Specification</u>:

Please replace the paragraph beginning at line 3 of page 1 with the following amended paragraph:

Priority is claimed from provisional applications: Appl.Nos. 06/395,604, filed July 12, 2002, and 06/399,746, filed July 30, 2002. The following copending ~~applications disclose~~ <u>application dislcoses</u> related subject matter and ~~have~~ <u>has</u> a common assignee: Appl.No. ~~..., filed ...(TI-34475)~~ <u>10/447,978, filed 05/29/2003.</u>

Please replace the Abstract of the Disclosure with the following amended abstract:

Detection for a MIMO <u>(multiple-input, multiple-output)</u> wireless <u>communications</u> system with symbols iteratively detected in subsets with maximum likelihood hard decisions within subsets. <u>Previously detected subsets of symbols are used to regenerate corresponding input signals for interference cancellation. With a 4-transmitter antenna, 4-receiver antenna system, two subsets of two symbols are possible with the first two symbols detected with zero-forcing or MMSE soft estimates which feed maximum likelihood hard decisions; and the hard decision for the first two symbols are used for interference cancellation followed by zero-forcing or MMSE soft estimates for the second two symbols which then feed further maximum likelihood hard decisions.</u>